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3-Substituted indoles and indazoles TITLE:

INVENTOR(S): Horner, Leopold; Sues, Oskor; Simon, Ulrich

PATENT ASSIGNEE(S): Kalle A.-G. SOURCE:

Ger., 5 pp. CODEN: GWXXAW

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PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 1266763		19680425	DE 1965-K56728	19650727

GΙ For diagram(s), see printed CA Issue.

AB I and II were prepared by irradiating III in excess of a solvent RH. 3.6 g. III (R1 = 6-Cl, X = N) in 750 ml. C6H6 was exposed to sunlight until the solution, which turns red as the reaction proceeds, no longer couples with phloroglucinol (.apprx.6 hrs.). After evaporation of the C6H6, the residue was chromatographed over Al2O3 to give 71.5% I (R1 = 6-Cl, R =Ph), m. 151-3°. The following I were similarly prepared (R, R1, %yield, and m.p. given): Ph, 5-Cl, 61, 135-6°; 2-pyridyl, 6-Cl, 34.5, 159-60°; 3-(thienyl), 6-Cl, -, 186-7°; Ph, H, -, 115-16°; p-ClMeC6H3, H, -, 141-2°; Ph, 4-Cl, -, 204-5°; p-ClMeC6H3, 6-Cl, -, 169-70°; o-(MeO)2C6H3, 6-Cl, -, 166-7°; CNC6H4, 6-Cl, -, 288-90°; MeO2CC6H4, 6-Cl, -,  $174-5^{\circ}$ ; Ph, 5-MeO, -,  $133-4^{\circ}$ . III (R1 = H, X = CPh) (2.2) g.) in 330 ml. cyclopentene was irradiated with a high pressure Hg lamp till no more N was given off. II (R = 3-cyclopentenyl, R1 = Ph), m. 163-4°, was isolated in 44% yield by the method described above. The following II were similarly prepared (R, R1, % yield, and m.p. given): 3-cyclohexenyl, Ph, -, 161-2°; 3-cyclooctenyl, Ph, -, 138-40°; cyclohexyl, Ph, 47, 158-9°; cyclohexyl, Me, -, (picrate m. 180-1°); Ph, Me, -, 59-60°; p-MeOC6H4, Ph, -, 124-5°; Ph, Ph, -, 189-90°.

ΙT 13097-04-6P 13109-76-7P

> RL: SPN (Synthetic preparation); PREP (Preparation) (preparation of)

RN 13097-04-6 CAPLUS

CN 1H-Indazole, 6-chloro-3-phenyl- (8CI) (CA INDEX NAME)

RN 13109-76-7 CAPLUS

CN 1H-Indazole, 6-chloro-3-(2-pyridyl)- (8CI) (CA INDEX NAME) Horner P. 7

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